

# Decision Support Briefing

Southeast River Forecast Center



## Decision Support Briefing Remnants of Tropical Depression Fred and Tropical Storm Grace

**Issued:** 11:32 AM      Saturday, August 14, 2021



Weather Ready Nation



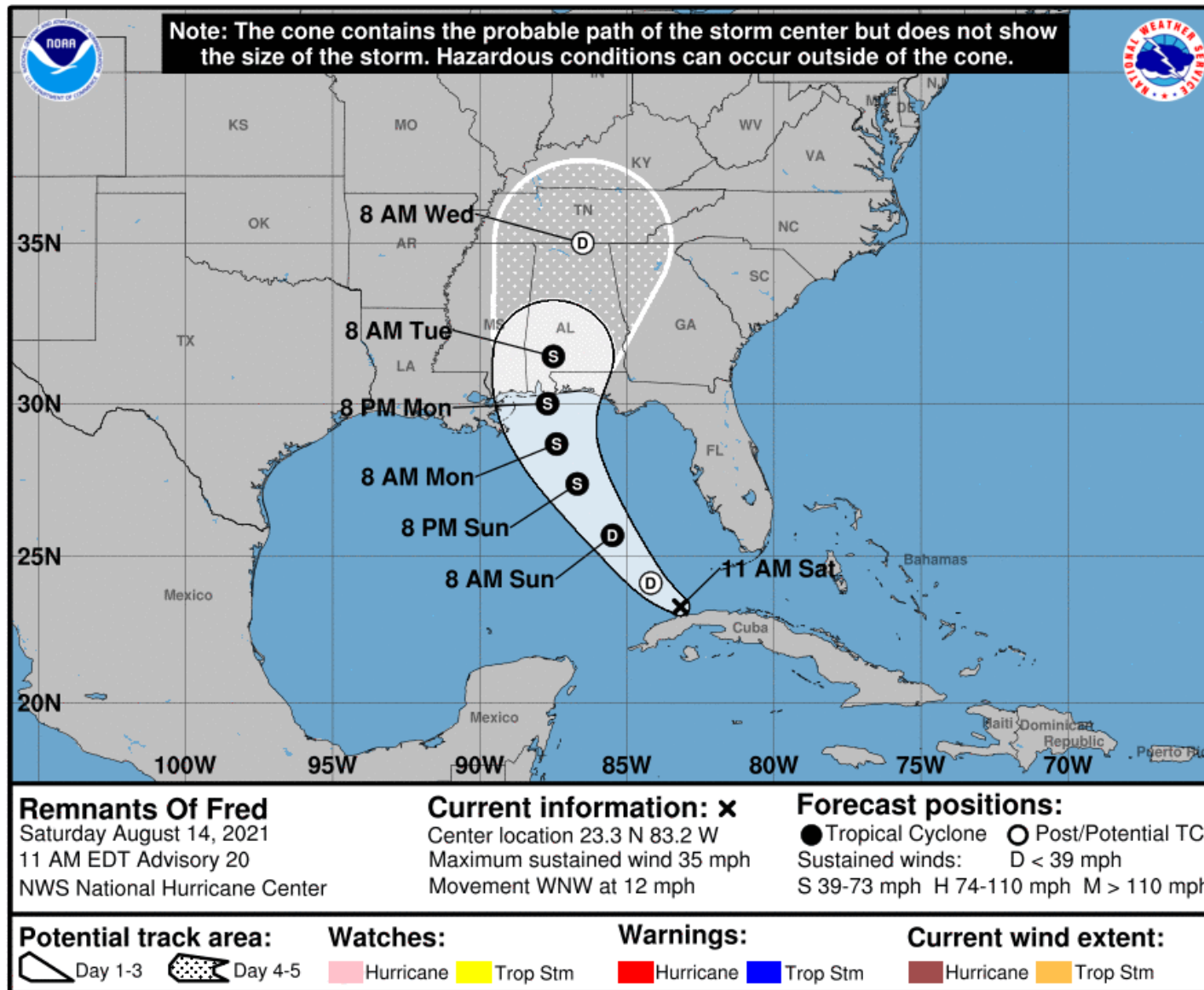
NWSSERFC



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- **Fred is forecast to regain tropical storm strength later this weekend. The track is further west than was forecast yesterday. Therefore, forecast rainfall totals in Florida have decreased from earlier predictions.**
- **Streamflows are currently above normal across most of Florida causing an inherent risk for flooding with additional heavy rainfall. However, the shift in track would produce less rain in these areas.**
- **River forecasts include only 48 hours of expected rainfall.**
- **SERFC is watching Tropical Storm Grace in the Atlantic...it will likely affect Puerto Rico on Sunday and could impact Florida first and the southeast US later this week.**



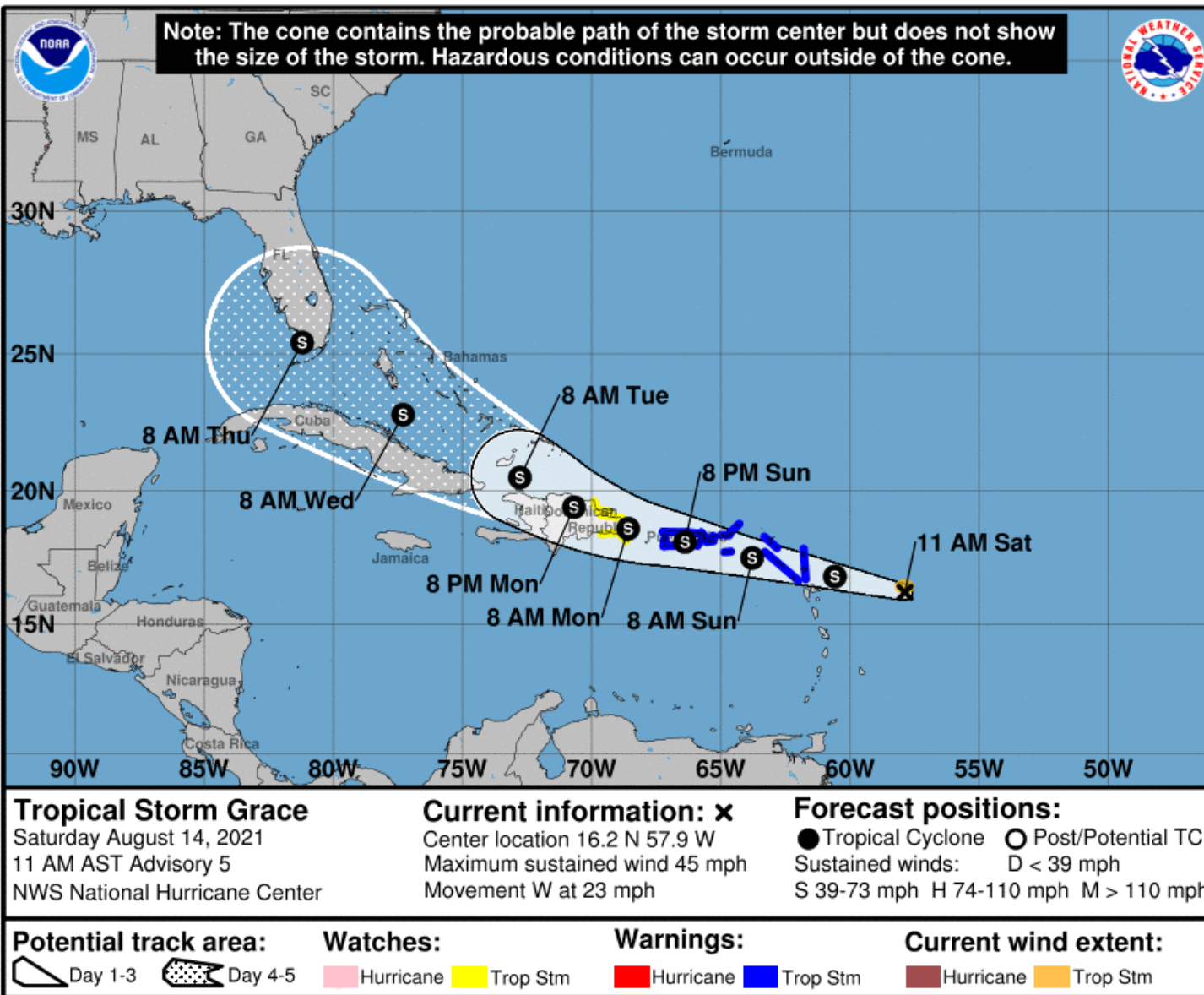
Remnants of Fred are forecast to regain tropical storm strength as it tracks northwestward over the next couple of days.

Impact from this system will arrive on the Alabama/N. Florida/ Mississippi gulf coast on Monday.

# Tropical Storm Grace

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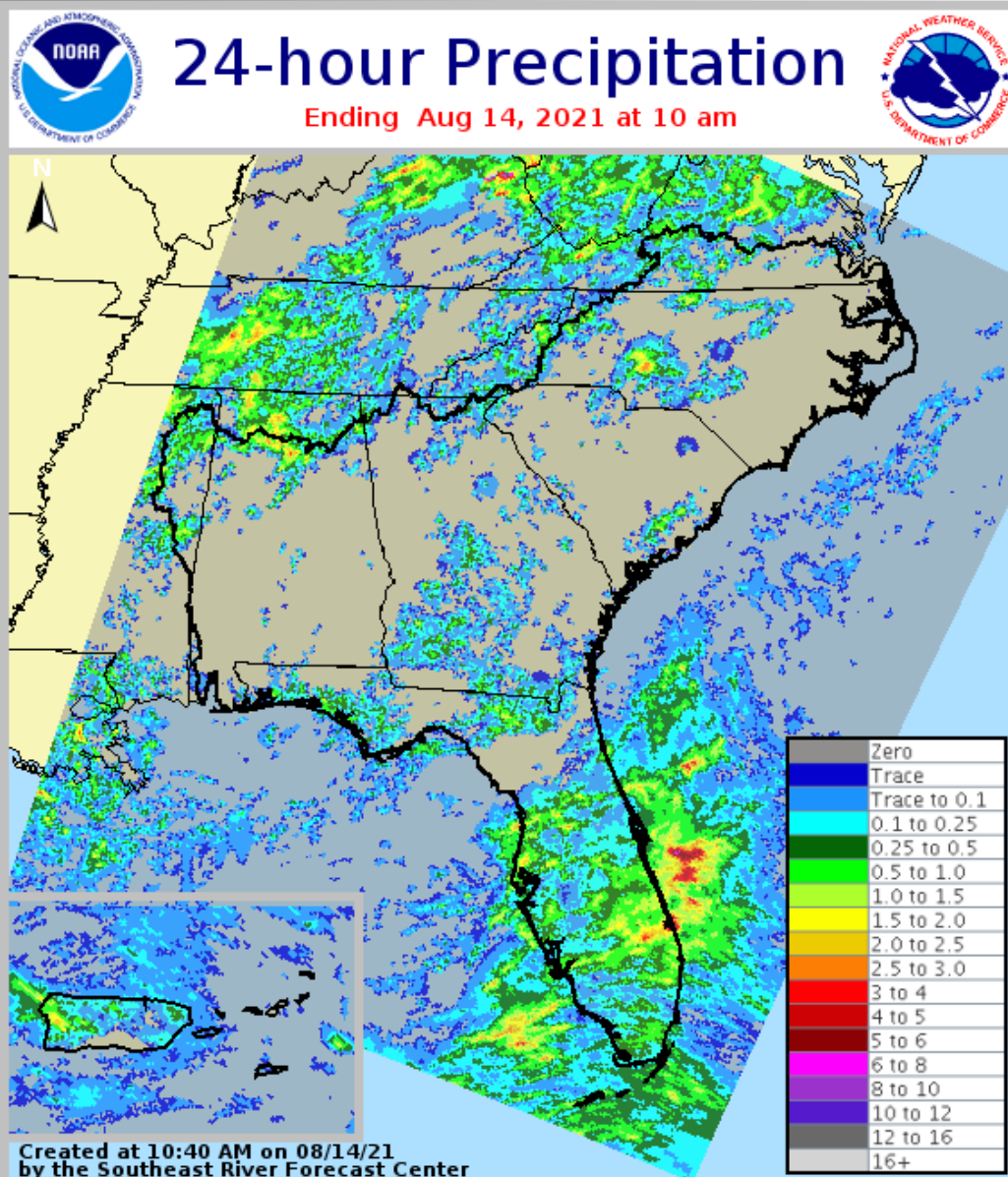
Grace is following a similar path as Fred took earlier this week.

Impacts to Puerto Rico will likely be on Sunday with potential impacts on south Florida by Thursday.

# Past 24-hour Precipitation

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Over the past two weeks, well-above normal rainfall has occurred in the Big Bend area of Florida, including the Suwannee river basin.

Typical summertime convection has brought additional rainfall over the Southeast these past few days. The graphic here shows the past 24 hours.

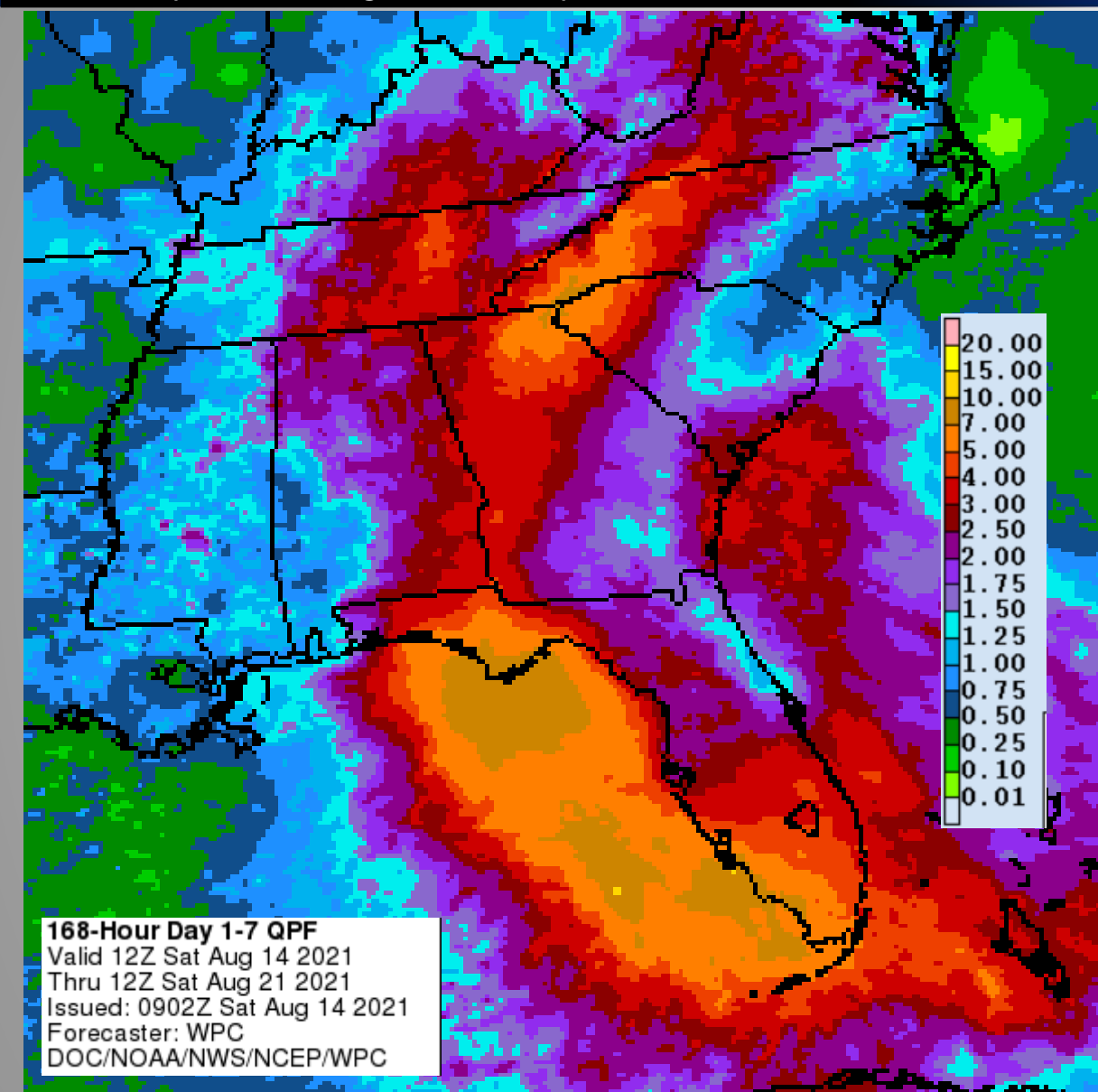
Continued scattered showers and storms are forecast each day ahead of additional impacts from Fred and Grace.

# 7-Day Precipitation Forecast

8 am Friday 8/14 through 8 am Friday 8/21

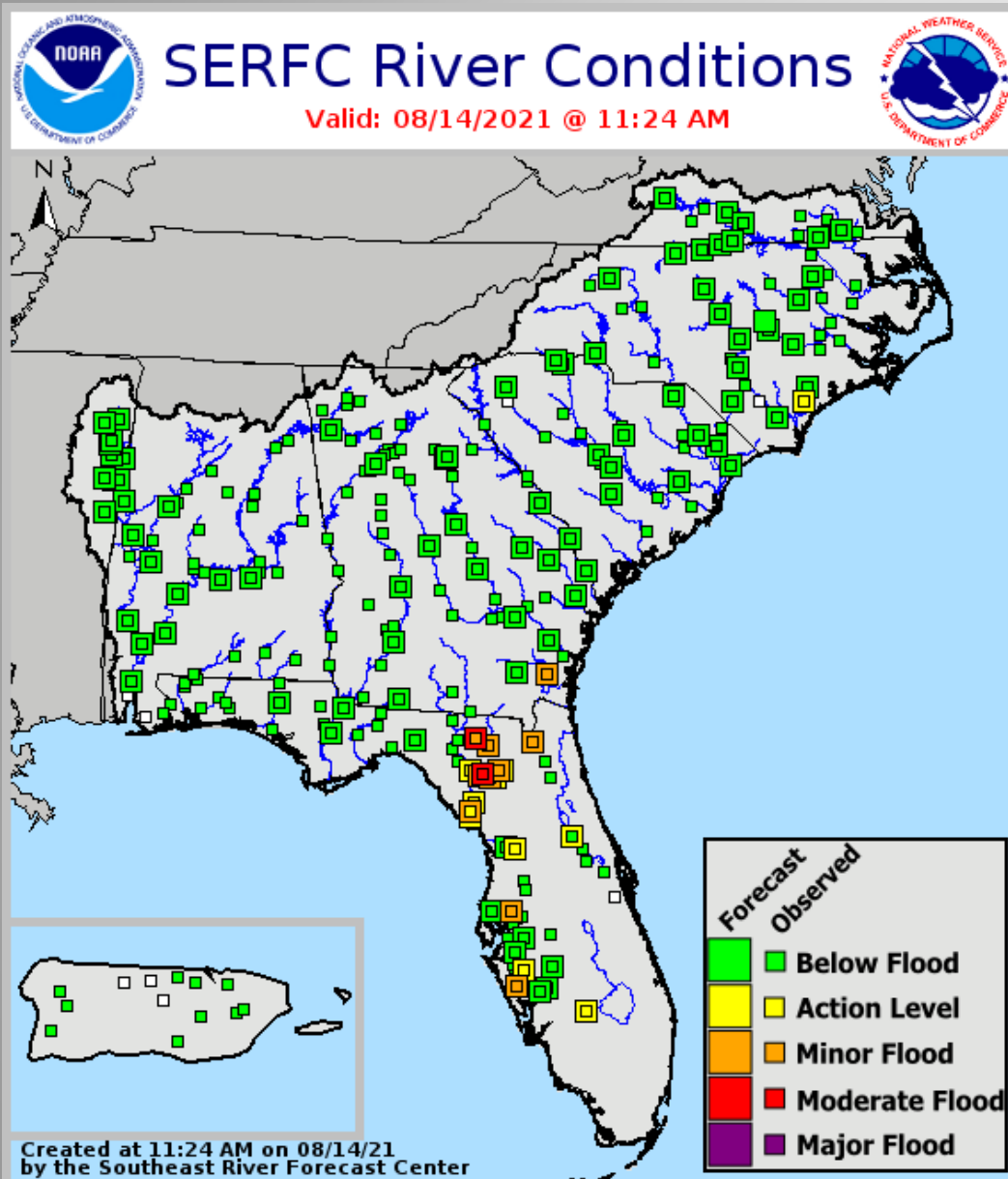
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An active week with remnants of Fred producing rain in Florida and then Grace potentially adding rain in South Florida by Thursday or Friday.

There is still the possibility of heavy rain along the path of Fred...but with even less confidence today as Fred is having difficulty reforming.



Minor to moderate flooding continues along parts of the Suwannee and Santa Fe rivers. Many rivers will remain high into the weekend.

Additional rainfall from Fred could enhance flooding conditions, causing higher or new crests or slower recessions on rivers.

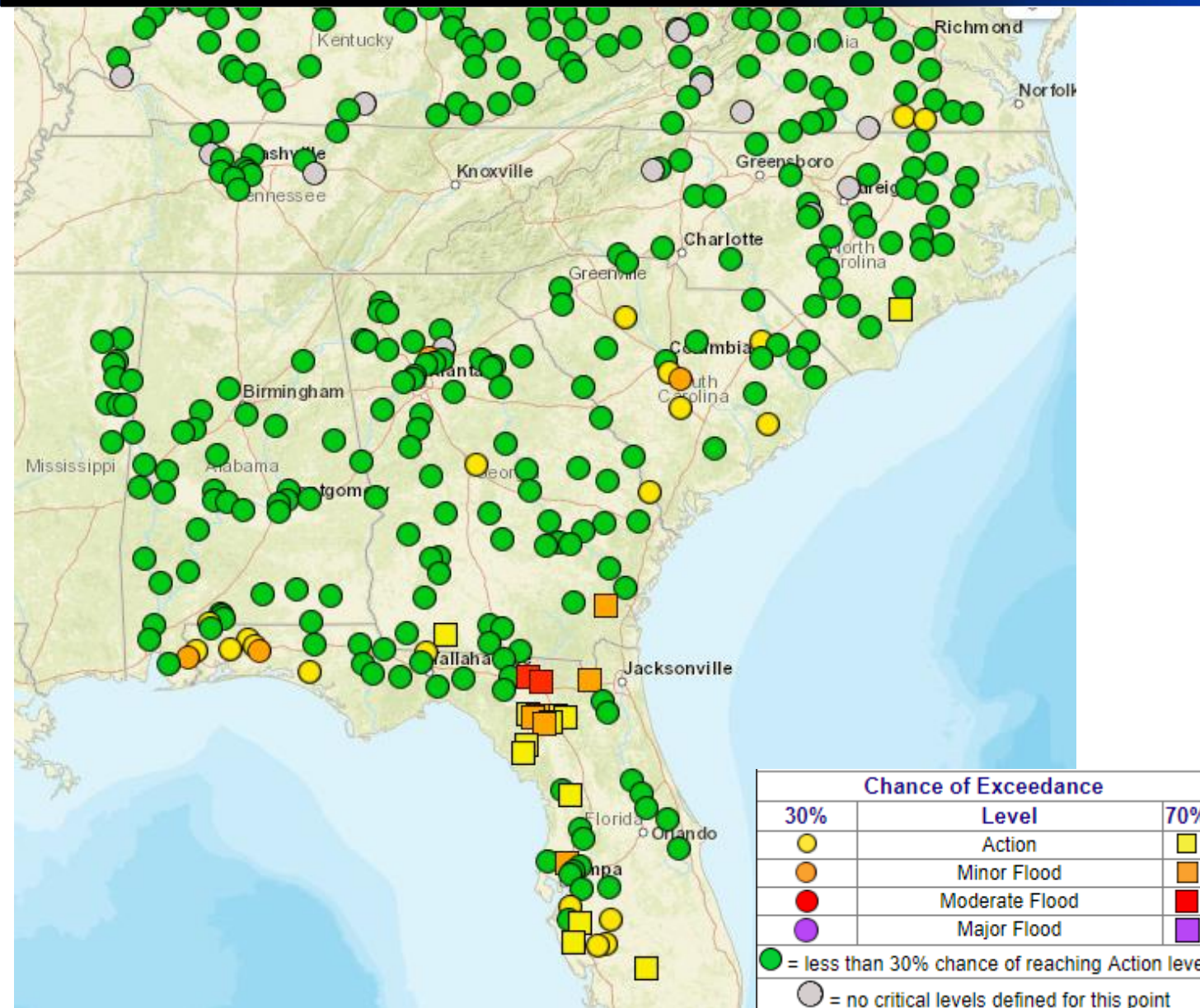
SERFC is using 48 hours of QPF (rainfall forecast) in the forecasts depicted here.

# Ensemble Forecasts (MMEFS)

MMEFS

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The Meteorological Model Ensemble Forecast System (MMEFS), to the left, is using the NAEFS model and addresses uncertainty in the longer lead rainfall forecast that helps to provide a confidence level for potential flooding. The NAEFS runs in our model every 12 hours.

Mostly minor flooding is possible as Fred tracks north through the southeast US

When looking at these, know that this is helpful in describing the uncertainty outside the 48-hour QPF window we use for the river forecasts.

To take a closer look. Here is the link to more detailed information:

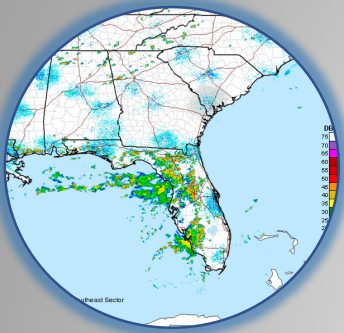
<https://www.weather.gov/erh/mmeefs>



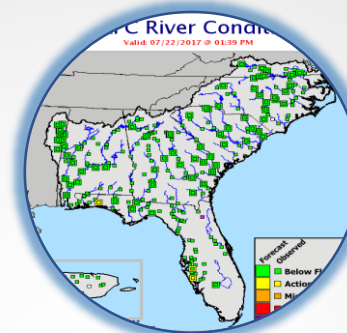
- SERFC is currently in normal operations but will add staffing this evening and may extend hours if necessary.. Normal operating hours are from 6 am to 10 pm EDT. Please contact us if you have any questions or concerns.
- Briefings will be issued until further notice.

Latest River Stages and Forecasts  
are available...click here!

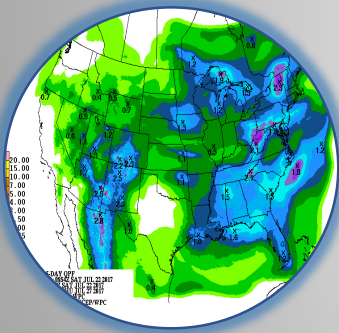
Please send all operational correspondence to  
[sr-alr.rivers@noaa.gov](mailto:sr-alr.rivers@noaa.gov) or call the office directly.



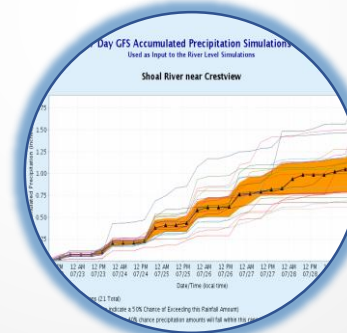
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[Latest Forecast Rainfall](#)



[MMEFS – Ensemble River Forecasts](#)



*The Decision Support Briefing will continue through the weekend.*

- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email [sr-alr.rivers@noaa.gov](mailto:sr-alr.rivers@noaa.gov) or contact your local NWS Weather Forecast Office.*
- *Remember: SERFC briefings cover **freshwater flooding**. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*